# The West American Scientist.

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## Southern California Lichens.

RAMALINA CERUCHIS De Not.
Hasse, Erythea 3:41, LA Co; 4:96, on shrubs near the coast (forma cephalota Tuck).

RAMALINA CRINITA Tuck.
"Thallus caespitose, rigid, compressed, sub-dichotomous, linear-laciniate, at length much dilated, greenish-glaucous, the divisions smooth, interruptedly white -striate, and becoming lacuoes, attenuate at the summits, and clothed at the margins more or less thickly with strong, solitary or clustered, finally branched, black fibrils; apothecia middling-sized to large (3-10 mm in width), subterminal and lateral, subpodicellate, varying as to smoothness as the thallus, the margins blackened; spores oblong-ellipsoid 15-20—5-6 mic."Tuckerman, Torr cl b 10:43.

RAMALINA HOMALEA Ach.
On Euphorbia misera, Pt Loma, SD (Or 2126). Todos Santos bay, Baja (Or 2150, on shrubs). Coast of Cal, on rocks (Menzies). Hasse Erythea 4:150, Los Angeles Co.

RAMALINA INTERMEDIA Del.
Hasse, Erythea 4:98.on shrubs, Catalina

RAMALINA MENZIESII Tuck.
Baja (Or 2152); on rocks and shrubs! Hasse. Erythea 3:41, Los Angeles Co.

RAMALINA POLLINARIA Ach.
San Diego (Palmer).

RAMALINA RETICULATA Kremp.
Vancouver's Island (J. Macoun). Near El Cajon valley, SD Co, on Quercus agrifolia (Or), and near Todos Santos bay, Baja (Or2156). Hasse, Erythea 3.41, LA Co.

RINODINA ANGELICA Stiz.
"Thallus similar to R. oreina Mass, but differing in size of spores; these 16-20 by 8-10 mic., short ellipsoid, obtuse. Hymenial structures blue with iodine. Thallus yellow with potassium hydrate. Mr 1893. On rocks, Santa Monica range, Los Angeles Co., Calif." —Hasse, Erythea 3:43.
Hasse, Erythea 4:107, LA Co, on rocks.

RINODINA BOLODES Tuck.
Baja! SD, on earth (Or 2149).

RINODINA CONRADI Kaerb.
Europe. SF (Bolander). SD mesas, on pebbles! Hasse, Erythea 4:97, 107, on earth and rocks.

RINODINA OREINA Mass.
Hasse, Erythea 3:43, Los Angeles Co.

RINODINA RADIATA Tuck.
Mesas, SD, on stones (Or 2117). Near San Quintin, Baja (Or 2113). Hasse, Erythea 3:43, Los Angeles Co.

RINODINA SOPHODES Nyl.
Baja, on Sambucus glauca! SD (Or 2172). Throughout N. A., on trees, stones and dead wood. Hasse, Erythea 3:43, LA Co; 4:107.

RINODINA SUCCEDENS Nyl.
Hasse, Erythea 4:107, LA Co, on bark.

RINODINA THYSANOTA Tuck.
Hasse, Erythea 3:43, Los Angeles Co.

ROCCELLA LEUCOPHAEA Tuck.
SD, on shrubs, (Or 2168). Hasse, Erythea 4:150, LA Co, on Lycium Cal'cum.
cum.

Variety MINOR Tuck.
Hasse, Erythea 4:150, Catalina, on rocks exposed to ocean spray.

ROCCELLA PHYCOPIS Ach.
SD; Cape of Good Hope; Peru; Maderra; Cuba.

ROCCELLA TINCTORIA D C
Mexico, on rocks (Krempelhuber); Baja (Or); SD (Palmer, Or).

SCHIZOPELTE CALIFORNICA Fr.
San Diego (Palmer).

STEREOCAULON ALBICANS Nyl
Pt Loma, SD! Guadalupe Island (Palmer). Not rare on the ground under bushes, mesas or canyons. Rocky mts, Colo. (Brandegee).

STYLOGRAPHA PARALLELA Nyl.
San Diego mesas.

THELOCHISTES LYCHNEUS Nyl.

Forma LACINIOSA Cchaer.
Hasse Erythea 3:41, LA Co.

THRYSOPTHALMUS Norm.
Cosmopolitan. SD; Baja (Or 2146), on Prosopis pubescens. Hasse, Erythea 3:41, Los Angeles Co.

Variety FLAVICANS Wallr.
S. C. Texas. Mexico. Near San Quintin bay, Baja, very large, abundant, homely specimens, incrusted with salt and usually detached from the earth (Or 2148). Near Colton, Cal, on Adenostoma (Parry),—very delicate and beautiful specimens! Hasse, Erythea 3:41, LA Co.

THELOCHISTES PARIETINUS Norm.
SD (Or 2144). Shores of Lake Superior. New England. New York.
Hasse, Erythea 4:106—"forma terrestris, on moist coast rocks," LA Co.

Variety POLYCARPUS Tuck.
Cosmopolitan, SD (Or 2145).

UMBILICARIA PHAEA Tuck.
Hasse, Erythea 3:42, LA Co.

UMBILICARIA SEMITENSIS Tuck.
Hasse, Erythea 3:42, Los Angeles Co.
URCEOLARIA GYPSACEA Nyl.
Hasse, Erythea 4:107, LA Co, on earth. San Diego.
URCEOLARIA SCRUPOSA Nyl.
Hasse, Erythea 3:43, LA Co; 4:107, on earth. SD! Throughout N. A.
USNEA BARBATA Fn.
SD, sterile, on fences (Or 2169.—N. A. Baja.
Variety HIRTA Fn.
Hasse, Erythea 3:41, LA Co; 4:106. SD sterile on Adenostoma fasciculatum (Or 2170), and other shrubs.
Variety RUBIGINEA Michoe.
San Diego (Or 2171).
USNEA JUBATA Fn.
USNEA OCHROLEUCA Fn.
VERRUCARIA CERASI Schrad.
Hasse, Erythea 3:44, on Malvastrum Thurberi, Los Angeles County.
VERRUCARIA INTERCEDANS.
Variety AETHIOBOLOIDES Nyl.
Hasse, Erythea 3:44, Los Angeles Co.
VERRUCARIA NIGRESCENS.
San Diego mesas on pebbles (Or)?
VERRUCARIA PLUMBARIA Stiz.
"Thallus smooth, whitish gray and darkening, spores colorless, bilocular, ellipsoid, each cell slightly constricted, 12-16 by 4-6 mic. Paraphyses distinct. Reaction with iodine; yellow to bronze with potassium hydrate. On various bushes, Santa Monica Range; frequent."—Hasse, Erythea 3:44. (Los Angeles Co., Calif.).
VERRUCARIA PUNCTIFORMIS Ach.
Hasse, Erythea 4:150. "On Heteromeles."
VERRUCARIA PAPILLOSA Kaerb.
Variety TERRESTRIS Arnold.
Hasse, Erythea 4:150.—"On earth; with minute black apothecia."
VERRUCARIA VIRIDULA Schrad.
Hasse, Erythea 3:44, Los Angeles Co.
ACOLIUM STI. JACOBI Tuck.
"Thallus of white granules soon compacted into a chinky crust; apothecia of middling size in this genus (in the solitary specimen 0 mm, 5-8 in width, and about the same in height), of the substance and color of the thallus, more or less turbinate, the interior exciple yellow, the disk more or less protruded, black, but yellowish green at the surface. Spores (no thekes observed) rounded and short-ellipsoid, bi-locular, 0.020-40 mm long, 0.016-20 mm wide." Tuckerman, Torr cl b 10:22. Mesas, SD (Pringle! Or).

The above list, concluded from page 22, is far from complete, but enumerates all known to the writer as far as they have been specifically determined, by Dr. Tuckerman and others. Dr. H. E. Hasse's list has been added from Eryth.

C. R. Orcutt.

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Monterey Co., Cal. (Hickman).

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"Perennial, suffrutescent at base, 3-6 dm. high, glandular-pubescent throughout; stems many from the base, sparingly branched above; leaves lanceolate, serrate, 3-7 cm. long, narrowing to the clasping base, in age revolute on the margins; flowers shortly pedicellate; calyx 2 cm. long, contracted above the ovary, the upper and longer portion curved and spreading, the lanceolate, somewhat unequal teeth ½ the length of the tube; corolla golden yellow, nearly twice the length of the calyx, with gradually dilated throat and widely spreading nearly equal lips; styles stout, minutely and densely glandular; stigma tubular-peltate; mature capsule 10-12 mm. long, nearly quadrangular, tapering slightly toward the apex, opening to the base by the upper suture, the lower separating for only a short distance from the tip, and each valve splitting at the tip for nearly the same distance as the lower suture; placentae separate, as in M. glutinosus; seeds foveolate, apiculate at both ends."—T. S. Brandegee, Garden and Forest, 8:134, f 20 (3 Ap 1895).

South side of Cuyamaca peak, San Diego county, California.

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